# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 11-9309-3 | **Version number:** | 1.01 |
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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

## SECTION 1: Identification

**1.1. Product identifier**
Unitek™ Transbond™ XT Primer (712-034)

**Product Identification Numbers**
70-2020-8946-5

**1.2. Recommended use and restrictions on use**

**Recommended use**
Orthodontic use

**1.3. Supplier's details**

| | |
|---|---|
| **Address:** | KCI Medical India Private Limited, S - 327, Greater Kailash - II, New Delhi, Delhi, 110048, India |
| **Telephone:** | 1-855-423-6725 |
| **E Mail:** | psops_supportteam@solventum.com |
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**1.4. Emergency telephone number**
CHEMTREC 1-800-424-9300 OR 1-703-527-3887, Contract number# 1015211

## SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

**2.1. Classification of the substance or mixture**
Skin Corrosion/Irritation: Category 3.
Serious Eye Damage/Irritation: Category 2B.
Skin Sensitizer: Category 1.
Acute Aquatic Toxicity: Category 3.

**2.2. Label elements**
**Signal Word**
Warning

**Symbols**
Exclamation mark |

**Pictograms**

**HAZARD STATEMENTS:**

| | |
|---|---|
| H316 | Causes mild skin irritation. |
| H320 | Causes eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H402 | Harmful to aquatic life. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**
P280E Wear protective gloves.

**Response:**
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**2.3. Other hazards**
None known.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Wt |
|---|---|---|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | 45 - 55 |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | 45 - 55 |
| 4-(Dimethylamino) phenethyl alcohol | 50438-75-0 | < 0.5 |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye contact**
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical

attention.

**If swallowed**
Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable Extinguishing media**
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |

**5.3. Special protective actions for fire-fighters**
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

**6.2. Environmental precautions**
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Do not get in eyes.

**7.2. Conditions for safe storage including any incompatibilities**
No special storage requirements.

# SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limits**
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use in a well-ventilated area.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety glasses with side shields.

**Skin/hand protection**
See Section 7.1 for additional information on skin protection.

**Respiratory protection**
None required.

# SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Color** | Transparent Yellow |
| **Odor** | Slight Acrylate |
| **Odour threshold** | *No data available.* |
| **pH** | *Not applicable.* |
| **Melting point/Freezing point: NA** | *Not applicable.* |
| **Boiling point/Initial boiling point/Boiling range** | *Not applicable.* |
| **Flash point** | > 104.4 ºC [*Test Method:*Closed Cup] [*Details:*Polymerizes] |
| **Evaporation rate** | *No data available.* |
| **Flammability** | Not applicable. |
| **Flammable Limits(LEL)** | *Not applicable.* |
| **Flammable Limits(UEL)** | *Not applicable.* |
| **Vapour pressure** | <= 110,316.1 Pa [@ 55 ºC ] [*Ref Std:*AIR=1] |
| **Relative Vapor Density** | *No data available.* |
| **Density** | 1.14 g/ml [*Ref Std:*WATER=1] |
| **Relative density** | 1.14 [*Ref Std:*WATER=1] |
| **Water solubility** | Nil |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **Kinematic Viscosity** | 175 mm²/sec |
| **Volatile organic compounds (VOC)** | *No data available.* |

| | |
|---|---|
| **Percent volatile as Text** | Nil |
| **VOC less H2O & exempt solvents** | *No data available.* |
| **Molecular weight** | *No data available.* |

| | |
|---|---|
| **Particle Characteristics** | *Not applicable.* |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability**
Stable.

**10.3 Possibility of hazardous reactions**
Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**
Light.

**10.5 Incompatible materials**
None known.

**10.6 Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation**
This product may have a characteristic odour; however, no adverse health effects are anticipated.

**Skin contact**
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**
Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | Mouse | LD50 > 2,000 |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Rat | LD50 10,837 mg/kg |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | Rat | LD50 > 11,700 mg/kg |
| 4-(Dimethylamino) phenethyl alcohol | Inhalation-Dust/Mist (4 hours) | Professional judgement | LC50 estimated to be 5 - 12.5 mg/l |
| 4-(Dimethylamino) phenethyl alcohol | Ingestion | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 4-(Dimethylamino) phenethyl alcohol | Dermal | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Rabbit | No significant irritation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Rabbit | No significant irritation |
| 4-(Dimethylamino) phenethyl alcohol | Professional judgement | Irritant |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Rabbit | No significant irritation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | In vitro data | No significant irritation |
| 4-(Dimethylamino) phenethyl alcohol | Professional judgement | No significant irritation |

**Sensitization:**

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Mouse | Sensitising |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Mouse | Not classified |
| 4-(Dimethylamino) phenethyl alcohol | Professional judgemen | Sensitising |

| | | |
|---|---|---|
| | t | |

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | In Vitro | Not mutagenic |
| 4-(Dimethylamino) phenethyl alcohol | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | Mouse | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 5 weeks |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 4-(Dimethylamino) phenethyl alcohol | Inhalation | respiratory irritation | May cause respiratory irritation | Professional judgement | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | liver | Not classified | Mouse | NOAEL 2,000 mg/kg/day | 13 weeks |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | skin | Not classified | Mouse | NOAEL 100 mg/kg/day | 13 weeks |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Dermal | gastrointestinal tract \| hematopoietic system \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Mouse | NOAEL 2,000 mg/kg/day | 13 weeks |
| 2,2'-ethylenedioxydiethyl dimethacrylate | Ingestion | hematopoietic system \| liver \| | Not classified | Rat | NOAEL 3,849 | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | nervous system \| kidney and/or bladder \| eyes | | | mg/kg/day | |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | Ingestion | endocrine system \| hematopoietic system \| liver \| heart \| skin \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| immune system \| muscles \| nervous system \| eyes \| kidney and/or bladder \| respiratory system \| vascular system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |

**Aspiration Hazard**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

## SECTION 12: Ecological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.**

**12.1. Toxicity**

**Acute aquatic hazard:**
GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**
Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material | CAS Nbr | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | Common Carp | Analogous Compound | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | Green algae | Endpoint not reached | 96 hours | EC50 | >100 mg/l |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1- | 1565-94-2 | Green algae | Experimental | 96 hours | EC10 | 1.1 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| propanediyl)] bismethacrylate | | | | | | |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Zebra Fish | Experimental | 96 hours | LC50 | 16.4 mg/l |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Green algae | Experimental | 72 hours | NOEC | 18.6 mg/l |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Water flea | Experimental | 21 days | NOEC | 32 mg/l |
| 4-(Dimethylamino) phenethyl alcohol | 50438-75-0 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | Experimental Biodegradation | 28 days | BOD | 21 %BOD/ThOD | similar to OECD 301F |
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 29 days (t 1/2) | |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Experimental Biodegradation | 28 days | CO2 evolution | 85 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| 4-(Dimethylamino) phenethyl alcohol | 50438-75-0 | Modeled Biodegradation | 28 days | BOD | 7 %BOD/ThOD | Catalogic™ |

### 12.3 : Bioaccumulative potential

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate | 1565-94-2 | Experimental Bioconcentration | | Log Kow | 4.63 | |
| 2,2'-ethylenedioxydiethyl dimethacrylate | 109-16-0 | Experimental Bioconcentration | | Log Kow | 2.3 | EC A.8 Partition Coefficient |
| 4-(Dimethylamino) phenethyl alcohol | 50438-75-0 | Modeled Bioconcentration | | Bioaccumulation factor | 3.6 | Catalogic™ |

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other Adverse effects

No information available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

## SECTION 14: Transport Information

Not hazardous for transportation.

**Air Transport (IATA)Regulations**

**UN No** Not applicable
**Proper Shipping Name** Not applicable
**Hazard Classs/Division** Not applicable
**Subsidiary Risk** Not applicable
**Packing Group:** Not applicable

**Marine Transport (IMDG)**
**UN No** Not applicable
**Proper Shipping Name** Not applicable
**Hazard Classs/Division** Not applicable
**Subsidiary Risk** Not applicable
**Packing Group:** Not applicable
**Environmental Hazards:** Not applicable

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Global inventory status**
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

**Applicable Environmental, Health and Safety Regulations**
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

The product is classified as Non-hazardous as per MSIHC Rules,1989.

## SECTION 16: Other information

**NFPA Hazard Classification**

**Health:** 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision information:**

No revision information

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